



SEQUENCE LISTING

<110> Sundelin, Johan
Scarborough, Robert M.

<120> Recombinant C140 Receptor, Its Agonists and Antagonists, and
Nucleic Acids Encoding the Receptor

<130> 44481-5006-09-US

<140> US 10/643,627
<141> 2003-08-19

<150> US 10/127,691
<151> 2002-04-23

<150> US 08/097,938
<151> 1993-07-26

<150> US 08/390,301
<151> 1995-01-25

<150> US 08/474,414
<151> 1995-06-07

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<170> PatentIn Ver. 2.1

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Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile Thr Gly Lys Gly
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Val Pro Val Glu Pro Gly Phe Ser Ile Asp Glu Phe Ser Ala Ser Ile
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Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro Val Val Tyr Ile Ile
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 agc tca acc agt gtt aaa acc tcc tac tgagctgtac ctgaggatgt 1436
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Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val	
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Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile	
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Gly Ile Ser Leu Ala Ile Trp Leu Leu Ile Leu Leu Val Thr Ile Pro	
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Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe	
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Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe	
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Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu	
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Asp His Ala Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys	
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Val Thr Gly Lys Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu
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Phe Ser Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro
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Ile Val Tyr Thr Ile Val Phe Val Val Gly Leu Pro Ser Asn Gly Met
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Ala Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val
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Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp
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Phe Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala
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260 265 270
Ser Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys
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Ser His Val Tyr Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu
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 Arg Asp His Ala Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val
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 Ser Ile Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro Val Val Tyr
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 Ile Ile Val Phe Val Ile Gly Leu Pro Ser Asn Gly Met Ala Leu Trp
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 Ile Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile Tyr Met
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 Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe Pro Leu
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 130 135 140
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 165 170 175
 Asn Pro Met Gly His Pro Arg Lys Lys Ala Asn Ile Ala Val Gly Val
 180 185 190
 Ser Leu Ala Ile Trp Leu Leu Ile Phe Leu Val Thr Ile Pro Leu Tyr
 195 200 205
 Val Met Lys Gln Thr Ile Tyr Ile Pro Ala Leu Asn Ile Thr Thr Cys
 210 215 220
 His Asp Val Leu Pro Glu Glu Val Leu Val Gly Asp Met Phe Asn Tyr
 225 230 235 240

Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp
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 Pro Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile
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 225 230 235 240
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 260 265 270
 Ser Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys
 275 280 285
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 Asn Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln
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 Ser His Val Tyr Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu
 325 330 335
 Asn Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe
 340 345 350
 Arg Asp His Ala Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val
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 Asn Asp Lys Tyr Glu Pro Phe Trp Glu Asp Glu Glu Lys Asn Glu Ser
 50 55 60
 Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu
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<223> C140 receptor activation peptide

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Arg Asn Asn Ser Lys Gly Arg
1 5

<210> 9
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<220>
<223> Description of Artificial Sequence: C140 receptor
antagonist

<400> 9
Xaa Leu Leu Gly Lys
1 5

<210> 10
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140
antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 10
Xaa Leu Ile Gly Arg
1 5

<210> 11
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
antagonist

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa at position 1 = 3-mercaptopropionic acid; Xaa
at position 2 = cyclohexylalanine

<400> 11
Xaa Xaa Leu Lys Gly
1 5

<210> 12

<211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

 <220>
 <221> VARIANT
 <222> (1)..(2)
 <223> Xaa at position 1 = 3-mercaptopropionic acid; Xaa at position 2 = cyclohexylalanine

 <400> 12
 Xaa Xaa Ile Gly Arg
 1 5

 <210> 13
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

 <220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = 3-mercaptopropionic acid

 <400> 13
 Xaa Leu Leu Gly Lys Lys
 1 5

 <210> 14
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

 <220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = 3-mercaptopropionic acid

 <400> 14
 Xaa Leu Ile Gly Arg Lys
 1 5

 <210> 15
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

 <220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 15
 Xaa Leu Ile Gly Arg Lys Glu Thr Gln Pro
 1 5 10

<210> 16
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

<220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 16
 Xaa Leu Leu Gly Lys Lys Asp Gly Thr Ser
 1 5 10

<210> 17
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

<220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = (n-pentyl) 2-N-Leu

<400> 17
 Xaa Ile Gly Arg Lys
 1 5

<210> 18
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: C140 receptor antagonist

<220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = Me-N-(n-pentyl)

<400> 18
 Xaa Leu Ile Gly Arg Lys
 1 5

<210> 19
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: C140 receptor

agonist/immunogen

<400> 19

Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu Thr
1 5 10

<210> 20

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: C140 receptor
agonist/immunogen

<400> 20

Ile Ser Tyr His Leu His Gly Asn Asn Trp Val Tyr Gly Glu Ala Leu
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Cys

<210> 21

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: C140 receptor
agonist/immunogen

<400> 21

Gln Thr Ile Tyr Ile Pro Ala Leu Asn Ile Thr Thr Cys His Asp Val
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Leu Pro Glu Glu Val Leu Val Gly Asp Met Phe Asn Tyr Phe Leu
20 25 30

<210> 22

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: C140 receptor
agonist/immunogen

<400> 22

His Tyr Phe Leu Ile Lys Thr Gln Arg Gln Ser His Val Tyr Ala
1 5 10 15

<210> 23

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 23

Ser Leu Ile Gly Arg Leu
1 5

<210> 24

<211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 24
 Ser Leu Ile Gly Arg Ala
 1 5

 <210> 25
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 25
 Ser Leu Ile Gly Ala Leu
 1 5

 <210> 26
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 26
 Ser Leu Ile Ala Arg Leu
 1 5

 <210> 27
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 27
 Ser Leu Ala Gly Arg Leu
 1 5

 <210> 28
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 28
 Ser Ala Ile Gly Arg Leu
 1 5

 <210> 29

<211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 29
 Ala Leu Ile Gly Arg Leu
 1 5

 <210> 30
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 30
 Ser Phe Phe Leu Arg Trp
 1 5

 <210> 31
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 31
 Arg Asn Asn Ser Ser Lys Gly Arg
 1 5

 <210> 32
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 32
 Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile Thr
 1 5 10

 <210> 33
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 33
 Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile
 1 5 10

 <210> 34

<211> 11
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 34
 Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro
 1 5 10

 <210> 35
 <211> 10
 <212> PRT
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 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 35
 Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro
 1 5 10

 <210> 36
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 36
 Ser Leu Ile Gly Arg Leu Glu Thr Gln
 1 5

 <210> 37
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 agonist

 <400> 37
 Ser Leu Ile Gly Arg Leu Glu Thr
 1 5

 <210> 38
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 38
 Ser Leu Ile Gly Arg Leu Glu
 1 5

 <210> 39
 <211> 6

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 39
Ser Leu Ile Gly Arg Leu
1 5

<210> 40
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 40
Ser Leu Ile Gly Arg
1 5

<210> 41
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 41
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His Val Thr
1 5 10

<210> 42
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 42
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His Val
1 5 10

<210> 43
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 43
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His
1 5 10

<210> 44
<211> 10

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 44
 Ser Leu Leu Gly Lys Val Asp Gly Thr Ser
 1 5 10

 <210> 45
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 45
 Ser Leu Leu Gly Lys Val Asp Gly Thr
 1 5

 <210> 46
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 46
 Ser Leu Leu Gly Lys Val Asp Gly
 1 5

 <210> 47
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 47
 Ser Leu Leu Gly Lys Val Asp
 1 5

 <210> 48
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 48
 Ser Leu Leu Gly Lys Val
 1 5

 <210> 49
 <211> 5

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 49
 Ser Leu Leu Gly Lys
 1 5

 <210> 50
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <220>
 <221> VARIANT
 <222> (2)
 <223> Xaa at position 2 = cyclohexylalanine (Cha)

 <400> 50
 Ser Xaa Ile Gly Arg
 1 5

 <210> 51
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <220>
 <221> VARIANT
 <222> (2)
 <223> Xaa at position 2 = cyclohexylalanine (Cha)

 <400> 51
 Ser Xaa Leu Gly Lys
 1 5

 <210> 52
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = 2,3-diamino propionic acid (2,3-diaP)

 <400> 52
 Xaa Ile Gly Arg
 1

<210> 53
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <220>
 <221> VARIANT
 <222> (1)
 <223> Xaa at position 1 = 2,3-diamino propionic acid (2,3-diaP)

 <400> 53
 Xaa Leu Leu Gly Lys
 1 5

 <210> 54
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 54
 Ser Leu Leu Gly Lys Arg
 1 5

 <210> 55
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <400> 55
 Ser Leu Ile Gly Arg Arg
 1 5

 <210> 56
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: C140 receptor agonist

 <220>
 <221> VARIANT
 <222> (2)
 <223> Xaa at position 2= cyclohexylalanine (Cha)

 <400> 56
 Ser Xaa Leu Gly Lys Lys
 1 5

 <210> 57
 <211> 6
 <212> PRT

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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 agonist
      receptor

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 57
Ser Xaa Ile Gly Arg Lys
  1                               5

<210> 58
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
      (2,3-diaP)

<400> 58
Xaa Leu Ile Gly Arg Lys
  1                               5

<210> 59
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
      (2,3-diaP)

<400> 59
Xaa Leu Leu Gly Lys Lys
  1                               5

<210> 60
<211> 2732
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (73)..(1269)
<223> C140 receptor, cDNA and deduced protein sequences

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Thr Leu Leu Ala Ala Ser Val Ser Cys Ser Arg Thr Glu Asn Leu Ala														
	15 20 25													
ccg gga cgc aac aac agt aaa gga aga agt ctt att ggc aga tta gaa	207													
Pro Gly Arg Asn Asn Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu														
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acc cag cct cca atc act ggg aaa ggg gtt ccg gta gaa cca ggc ttt	255													
Thr Gln Pro Pro Ile Thr Gly Lys Gly Val Pro Val Glu Pro Gly Phe														
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Ser Ile Asp Glu Phe Ser Ala Ser Ile Leu Thr Gly Lys Leu Thr Thr														
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Val Phe Leu Pro Val Val Tyr Ile Ile Val Phe Val Ile Gly Leu Pro														
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Ser Asn Gly Met Ala Leu Trp Ile Phe Leu Phe Arg Thr Lys Lys Lys														
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His Pro Ala Val Ile Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu														
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Ser Val Ile Trp Phe Pro Leu Lys Ile Ser Tyr His Leu His Gly Asn														
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Asn Trp Val Tyr Gly Glu Ala Leu Cys Lys Val Leu Ile Gly Phe Phe														
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tat ggt aac atg tat tgc tcc atc ctc ttc atg acc tgc ctc agc gtg	591													
Tyr Gly Asn Met Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val														
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cag agg tac tgg gtg atc gtg aac ccc atg gga cac ccc agg aag aag	639													
Gln Arg Tyr Trp Val Ile Val Asn Pro Met Gly His Pro Arg Lys Lys														
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Ala Asn Ile Ala Val Gly Val Ser Leu Ala Ile Trp Leu Leu Ile Phe														
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ctg gtc acc atc cct ttg tat gtc atg aag cag acc atc tac att cca	735													
Leu Val Thr Ile Pro Leu Tyr Val Met Lys Gln Thr Ile Tyr Ile Pro														
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agg gct atc cga ctc atc atc acc gtg ctg gcc atg tac ttc atc tgc 975
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 Phe Ala Pro Ser Asn Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys
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 320 325 330

ctg tcg acc ctc aac agc tgc ata gac ccc ttt gtc tat tac ttt gtc 1119
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 335 340 345

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 Ser Lys Asp Phe Arg Asp His Ala Arg Asn Ala Leu Leu Cys Arg Ser
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 Val Arg Thr Val Asn Arg Met Gln Ile Ser Leu Ser Ser Asn Lys Phe
 370 375 380

tcc agg aag tcc ggc tcc tac tct tca agc tca acc agt gtt aaa acc 1263
 Ser Arg Lys Ser Gly Ser Tyr Ser Ser Ser Thr Ser Val Lys Thr
 385 390 395

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 Pro Ile Thr Gly Lys Gly Val Pro Val Glu Pro Gly Phe Ser Ile Asp
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 Glu Phe Ser Ala Ser Ile Leu Thr Gly Lys Leu Thr Thr Val Phe Leu
 65 70 75 80
 Pro Val Val Tyr Ile Ile Val Phe Val Ile Gly Leu Pro Ser Asn Gly
 85 90 95
 Met Ala Leu Trp Ile Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala
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 Val Ile Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile
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 Tyr Gly Glu Ala Leu Cys Lys Val Leu Ile Gly Phe Phe Tyr Gly Asn
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 Met Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr
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 180 185 190
 Ala Val Gly Val Ser Leu Ala Ile Trp Leu Leu Ile Phe Leu Val Thr
 195 200 205
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 210 215 220
 Ile Thr Thr Cys His Asp Val Leu Pro Glu Glu Val Leu Val Gly Asp
 225 230 235 240
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 245 250 255
 Ala Leu Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Lys Thr Leu Arg
 260 265 270
 Ser Ser Ala Met Asp Glu His Ser Glu Lys Lys Arg Gln Arg Ala Ile
 275 280 285

Arg Leu Ile Ile Thr Val Leu Ala Met Tyr Phe Ile Cys Phe Ala Pro
 290 295 300
 Ser Asn Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys Thr Gln Arg
 305 310 315 320
 Gln Ser His Val Tyr Ala Leu Tyr Leu Val Ala Leu Cys Leu Ser Thr
 325 330 335
 Leu Asn Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val Ser Lys Asp
 340 345 350
 Phe Arg Asp His Ala Arg Asn Ala Leu Leu Cys Arg Ser Val Arg Thr
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 <213> Homo sapiens

<220>
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 <223> C140 receptor, cDNA and deduced protein sequences

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 Pro Ser Ala Ala Trp Leu Leu Gly Ala Ala Ile Leu Leu Ala Ala Ser
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 Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser Ser Lys Gly
 20 25 30 35

 aga agc ctt att ggt aag gtt gat ggc aca tcc cac gtc act gga aaa 202
 Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val Thr Gly Lys
 40 45 50

 gga gtt aca gtt gaa aca gtc ttt tct gtg gat gag ttt tct gca tct 250
 Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe Ser Ala Ser
 55 60 65

 gtc ctc gct gga aaa ctg acc act gtc ttc ctt cca att gtc tac aca 298
 Val Leu Ala Gly Lys Leu Thr Thr Val Phe Leu Pro Ile Val Tyr Thr
 70 75 80

 att gtg ttt gcg gtg ggt ttg cca agt aac ggc atg gcc cta tgg gtc 346
 Ile Val Phe Ala Val Gly Leu Pro Ser Asn Gly Met Ala Leu Trp Val
 85 90 95

 ttt ctt ttc cga act aag aag aag cac cct gct gtg att tac atg gcc 394
 Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile Tyr Met Ala
 100 105 110 115

 aat ctg gcc ttg gct gac ctc ctc tct gtc atc tgg ttc ccc ttg aag 442
 Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe Pro Leu Lys
 120 125 130

att gcc tat cac ata cat ggc aac aac tgg att tat ggg gaa gct ctt Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly Glu Ala Leu 135 140 145	490
tgt aat gtg ctt att ggc ttt ttc tat cgc aac atg tac tgt tcc att Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr Cys Ser Ile 150 155 160	538
ctc ttc atg acc tgc ctc agt gtg cag agg tat tgg gtc atc gtg aac Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val Ile Val Asn 165 170 175	586
ccc atg ggg cac tcc agg aag aag gca aac att gcc att ggc atc tcc Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile Gly Ile Ser 180 185 190 195	634
ctg gca ata tgg ctg ctg act ctg ctg gtc acc atc cct ttg tat gtc Leu Ala Ile Trp Leu Leu Thr Leu Leu Val Thr Ile Pro Leu Tyr Val 200 205 210	682
gtg aag cag acc atc ttc att cct gcc ctg aac atc acg acc tgt cat Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr Thr Cys His 215 220 225	730
gat gtt ttg cct gag cag ctc ttg gtg gga gac atg ttc aat tac ttc Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe Asn Tyr Phe 230 235 240	778
ctc tct ctg gcc att ggg gtc ttt ctg ttc cca gcc ttc ctc aca gcc Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe Leu Thr Ala 245 250 255	826
tct gcc tat gtg ctg atg atc aga atg ctg cga tct tct gcc atg gat Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser Ala Met Asp 260 265 270 275	874
gaa aac tca gag aag aaa agg aag agg gcc atc aaa ctc att gtc act Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu Ile Val Thr 280 285 290	922
gtc ctg ggc atg tac ctg atc tgc ttc act cct agt aac ctt ctg ctt Val Leu Gly Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn Leu Leu Leu 295 300 305	970
gtg gtg cat tat ttt ctg att aag agc cag ggc cag agc cat gtc tat Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser His Val Tyr 310 315 320	1018
gcc ctg tac att gta gcc ctc tgc ctc tct acc ctt aac agc tgc atc Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn Ser Cys Ile 325 330 335	1066
gac ccc ttt gtc tat tac ttt gtt tca cat gat ttc agg gat cat gca Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg Asp His Ala 340 345 350 355	1114
aag aac gct ctc ctt tgc cga agt gtc cgc act gta aag cag atg caa Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys Gln Met Gln 360 365 370	1162
gta ccc ctc acc tca aag aaa cac tcc agg aaa tcc agc tct tac tct Val Pro Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser Ser Tyr Ser 375 380 385	1210
tca agt tca acc act gtt aag acc tcc tat tgagttttcc aggtcctcag Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr 390 395	1260
atgggaattg cacagtagga tgtggaacct gtttaatggt atgaggacgt gtctgttatt	1320

tccggatcca gatcttatta aagcagaact tggtttattgc agcttataat ggttacaaat 1380
 aaagcaatag catcacaaat ttcacaaata aagc 1414

<210> 63
 <211> 397
 <212> PRT
 <213> Homo sapiens

<400> 63
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 Ala Ala Ser Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser
 20 25 30
 Ser Lys Gly Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val
 35 40 45
 Thr Gly Lys Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe
 50 55 60
 Ser Ala Ser Val Leu Ala Gly Lys Leu Thr Thr Val Phe Leu Pro Ile
 65 70 75 80
 Val Tyr Thr Ile Val Phe Ala Val Gly Leu Pro Ser Asn Gly Met Ala
 85 90 95
 Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile
 100 105 110
 Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe
 115 120 125
 Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly
 130 135 140
 Glu Ala Leu Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr
 145 150 155 160
 Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val
 165 170 175
 Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile
 180 185 190
 Gly Ile Ser Leu Ala Ile Trp Leu Leu Thr Leu Leu Val Thr Ile Pro
 195 200 205
 Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr
 210 215 220
 Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe
 225 230 235 240
 Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe
 245 250 255
 Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser
 260 265 270
 Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu
 275 280 285
 Ile Val Thr Val Leu Gly Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn
 290 295 300
 Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser

305 310 315 320
 His Val Tyr Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn
 325 330 335
 Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg
 340 345 350
 Asp His Ala Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys
 355 360 365
 Gln Met Gln Val Pro Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser
 370 375 380
 Ser Tyr Ser Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr
 385 390 395

<210> 64
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 <212> PRT
 <213> Homo sapiens

<400> 64
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 Gly Pro Leu Leu Ser Ala Arg Thr Arg Ala Arg Arg Pro Glu Ser Lys
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 Ala Thr Asn Ala Thr Leu Asp Pro Arg Ser Phe Leu Leu Arg Asn Pro
 35 40 45
 Asn Asp Lys Tyr Glu Pro Glu Trp Glu Asp Glu Glu Lys Asn Glu Ser
 50 55 60
 Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu
 65 70 75 80
 Gln Lys Gln Leu Pro Ala Phe Ile Ser Glu Asp Ala Ser Gly Tyr Leu
 85 90 95
 Thr Ser Ser Trp Leu Thr Leu Phe Val Pro Ser Val Tyr Thr Gly Val
 100 105 110
 Phe Val Val Ser Leu Pro Leu Asn Ile Met Ala Ile Val Val Phe Ile
 115 120 125
 Leu Lys Met Lys Val Lys Lys Pro Ala Val Val Tyr Met Leu His Leu
 130 135 140
 Ala Thr Ala Asp Val Leu Phe Val Ser Val Leu Pro Phe Lys Ile Ser
 145 150 155 160
 Tyr Tyr Phe Ser Gly Ser Asp Trp Gln Phe Gly Ser Glu Leu Cys Arg
 165 170 175
 Phe Val Thr Ala Ala Phe Tyr Cys Asn Met Tyr Ala Ser Ile Leu Leu
 180 185 190
 Met Thr Val Ile Ser Ile Asp Arg Phe Leu Ala Val Val Tyr Pro Met
 195 200 205
 Gln Ser Leu Ser Trp Arg Thr Leu Gly Arg Ala Ser Phe Thr Cys Leu
 210 215 220
 Ala Ile Trp Ala Leu Ala Ile Ala Gly Val Val Pro Leu Val Leu Lys
 225 230 235 240
 Glu Gln Thr Ile Gln Val Pro Gly Leu Asn Ile Thr Thr Cys His Asp

245										250					255				
Val	Leu	Asn	Glu	Thr	Leu	Leu	Glu	Gly	Tyr	Tyr	Ala	Tyr	Tyr	Phe	Ser				
			260					265					270						
Ala	Phe	Ser	Ala	Val	Phe	Phe	Phe	Val	Pro	Leu	Ile	Ile	Ser	Thr	Val				
		275					280					285							
Cys	Tyr	Val	Ser	Ile	Ile	Arg	Cys	Leu	Ser	Ser	Ser	Ala	Val	Ala	Asn				
	290					295						300							
Arg	Ser	Lys	Lys	Ser	Arg	Ala	Leu	Phe	Leu	Ser	Ala	Ala	Val	Phe	Cys				
305					310					315					320				
Ile	Phe	Ile	Ile	Cys	Phe	Gly	Pro	Thr	Asn	Val	Leu	Leu	Ile	Ala	His				
				325					330					335					
Tyr	Ser	Phe	Leu	Ser	His	Thr	Ser	Thr	Thr	Glu	Ala	Ala	Tyr	Phe	Ala				
			340					345					350						
Tyr	Leu	Leu	Cys	Val	Cys	Val	Ser	Ser	Ile	Ser	Ser	Cys	Ile	Asp	Pro				
		355					360					365							
Leu	Ile	Tyr	Tyr	Tyr	Ala	Ser	Ser	Glu	Cys	Gln	Arg	Tyr	Val	Tyr	Ser				
	370					375					380								
Ile	Leu	Cys	Cys	Lys	Glu	Ser	Ser	Asp	Pro	Ser	Ser	Tyr	Asn	Ser	Ser				
385					390					395					400				
Gly	Gln	Leu	Met	Ala	Ser	Lys	Met	Asp	Thr	Cys	Ser	Ser	Asn	Leu	Asn				
				405					410					415					
Asn	Ser	Ile	Tyr	Lys	Lys	Leu	Leu	Thr											
				420															